

## High-End Workshop

on

# Research Methodology & Scientific Communication in Civil Engineering

04<sup>th</sup> Oct 2021 (Mon) – 09<sup>th</sup> Oct 2021 (Sat)



### Organized by:

Department of Civil Engineering,  
Visvesvaraya National Institute of Technology,  
Nagpur

### Funded by:

Science & Engineering Research Board (SERB)  
under the Accelerate Vigyan Scheme

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## About the Institute

Visvesvaraya National Institute of Technology, Nagpur is one of the thirty National Institutes of Technology in the country. It is an Institute of National Importance, named after Bharat Ratna Sir M. Visvesvaraya. Earlier, the Institute was known as Visvesvaraya Regional College of Engineering (VRCE). It was established in the year 1960 under the scheme sponsored by Govt. of India and Govt. of Maharashtra. The vision of institute is to contribute effectively to the national endeavour of producing quality human resource of world class standard by developing a sustainable technical education system to meet the changing technological needs of the country incorporating relevant social concerns and to build an environment to create and propagate innovative technologies for the economic development of the nation.



## About the Department

The Department of Civil Engineering is one of the finest and oldest engineering department of the Institute and stands with an immortal reputation. The department was formed along with the Institute itself and therefore is as old. The Department has highly educated and well experienced faculty members who endeavor to produce finest engineers, contributing incredibly to the nation. The alumni of the department are widespread in India and abroad, occupying high positions in their respective fields. The Department has an intake of 120 students per year under UG Course and 100 students per year under PG Courses.

## About the Course

This course will be conducted under Accelerate Vigyan scheme intended towards “Abhyaas” mission to impart research driven ideology and scientific communication skills to young and passionate researchers. The course shall be conducted through virtual mode.

## Workshop Coordinators / Event Organizers

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## Target Participants

Motivated PhD students 2<sup>nd</sup> year Master's students from Tier-II & Tier-III level institutes as defined under the Scheme 'Accelerate Vigyan' by DST-SERB

Applicants with Civil Engineering background desirous to nurture and develop research skills.

## Support Team

- Mr. Sandeep M., VNIT Nagpur
- Mr. Mayuresh Patil, VNIT Nagpur
- Mr. Rahul Shende, VNIT Nagpur

## Objective of the Course

- ✓ As desired by DST-SERB **KARYASHALA**, the course is intended towards “Abhyaas” mission.
- ✓ The course shall introduce to the different aspects of professional science communication including written communication, oral communication, reading and ethics in communication.
- ✓ This course introduces students to qualitative research and helps them understand how qualitative research supplements quantitative inquiry in human behaviour and the social sciences, thereby embarking the socio-scientific responsibility.

## Course Outline

- This course aims to introduce students to the important aspects of research.
- One of the aims of this course is to teach practical English without any textbook and avoiding references to formal grammar as far as possible.
- By going through this course, students are likely to be able to take up research activities in a more systematic and formal manner right from the beginning.

## Key Features

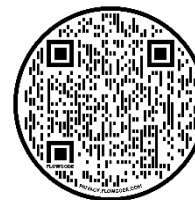
- Overview of research & thrust area identification
- Roles and responsibilities of a qualitative researcher
- Literature search & creativity in research
- Experimental & Modelling skills
- Ethics & IPR in research
- Introduction to Professional scientific communication & Research writing
- Structure of a scientific reports & manuscripts
- Writing process & Elements of Writing
- How to make technical presentation & Oral communication
- Group Discussion & Interaction on various thrust research fields in Civil Engineering

## Programme Schedule

Tentative Topics	Speaker
Research - An Insight	Dr. Sarvesh Chandra, IIT Kanpur (Retd. Faculty)
Introduction to Research Methodology & Scientific Communication	Dr. S Ganesh, IIT Kanpur
Elements of Technical Report Writing	Dr. Arindam Dey, IIT Guwahati
Qualitative Research	Dr. Aradhna Malik, IIT Kharagpur
Publishing ethics & Scientific Writing for Journal Papers	Ms. Kamiya Khatter, Associate Editor, Springer
Creative Common License and Open Educational Resources	Dr. Chockalingam, NIT Warangal
Latex for Technical Writing	Ms. Firuza Karmali, IIT Bombay
How to do literature review	Dr. Yashwant B Katpatal, VNIT Nagpur
Research methodology	Dr. Ajay R Tembhurkar, VNIT Nagpur
Psychology behind Research	Dr. Yogesh S Deshpande, VNIT Nagpur
Writing a research paper : Insight and Difficulties	Dr. Kailas Wasewar, VNIT Nagpur
Review Article: Is it really required?	
Literature Survey and Elements of a Research Article	Dr. Ravikumar Dumpala, VNIT Nagpur
English Proficiency for Scientific communication	Dr. Karthik B, VNIT Nagpur

## Registration & Guidelines

- **The course will be completely free of cost for the shortlisted participants.**
- The participants will be limited to 25 candidates (as per SERB norms) within which a buffer cap of 15 is reserved to accommodate PhD students.
- The applicants shall produce a endorsement letter from their Head of the department indicating their enrolment with the institute and “No Objection Certificate (NOC)” for permitting to undergo training in the workshop, if selected.
- VNIT reserves the right to devise a well-defined shortlisting criteria for selection of candidates based on the basic eligibility criteria laid out by SERB and as per formulated guidelines for this workshop.
- Please fill Google form for Registration: <https://tinyurl.com/vnitworkshop>



Scan to Register

## Course Assessment & Feedback

Active participation in lectures & discussion/interaction sessions along with a basic level evaluation shall fetch the participant the KARYASHALA Course Completion Certificate.

As per SERB guidelines, mandatory anonymous course feedback shall be taken in the stipulated format.

## Important Dates

**Last date for registration : 10-09-2021**  
**Notification to selected participants : 25-09-2021**